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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/826,749	04/16/2004	Robert A. Boger	P2001US00	1228
7590		11/15/2007		
Gateway, Inc. Attention: Mark Dickey 610 Gateway Drive, MS Y-04 N. Sioux City, SD 57049			EXAMINER PENG, FRED H	
			ART UNIT 2623	PAPER NUMBER
			MAIL DATE 11/15/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/826,749

Applicant(s)

BOGER ET AL.

Examiner

Fred Peng

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 16 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki et al (US 2005/0055710 A1) in view of Tow et al (US 7,266,771 B1).

Regarding Claims 1 and 8, Aoki discloses a system (FIG.1) with corresponding method for content recording of a personal video recorder comprising:

means for receiving a broadcast program (101);

means for storing said broadcast program on a hard disk (102);

means for receiving a user preference signal via a user interface (104);

means for generating an associated database table in accordance with said user preference signal (FIG.8, element 1107), said associated database table containing a plurality of scene segment records (FIG.10, elements 1304-1, 1304-2, 1304-3);

means for employing a record of said associated database table (FIG.10) that contains a start address field, an end address field (1304-1, each segment inherently includes start and end addresses), a user preference field (Para 190; Para 213; a user preference field is proportional shaded area through the whole program, like viewed, not viewed or partially viewed) and a show name field (1301, NEWS).

Aoki is silent about means for providing a deletion skipped scenes capacity to said user;

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means for deleting said plurality of scene segment records which contain information of a plurality of skipped scene segments stored on said hard disk upon reception of a user command; and

means for regaining an available space on said hard disk storing said plurality of skipped scene segments for future recording.

In an analogous art, Tow discloses means for providing a deletion skipped scenes capacity to said user for deleting said plurality of scene segment records which contain information of a plurality of skipped scene segments stored on said hard disk upon reception of a user command; and regaining an available space on said hard disk storing said plurality of skipped scene segments for future recording (Col 4 lines 52-58).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Aoki's system to include a deletion skipped scenes capacity to said user, as taught by Tow to provide the users with better deletion information.

Regarding Claims 2 and 9, Aoki further discloses said user preference signal comprises a viewed signal, a skipped signal and an unviewed signal (Para 189).

Regarding Claims 3 and 10, Aoki further discloses determining a starting point and an ending point of said scene segments on said hard disk based on said user preference signal; and providing information of said starting point and said ending point of said plurality of scene segments for said associated database table wherein said plurality of scene segments are virtually divided on said hard disk (FIG.8, element 1102; FIG.10, elements 1304-1, 1304-2; each segment inherently includes a start and end address and virtually divided on said hard disk 1102).

Regarding Claims 4 and 11, Aoki further discloses providing a playback which allows said user to play a stored broadcast program;

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consulting said user preference field in said associated database table during said playback of said stored broadcast program; and

regenerating said associated database table during said playback of said stored broadcast program when said user wants to edit said broadcast program (Para 62).

Regarding Claims 5 and 12, Aoki further discloses said stored broadcast program is stored on said hard disk (Para 71).

Regarding Claims 6 and 13, Aoki further discloses providing a rewinding capacity of said broadcast program to said user;

determining a starting point of a rewind scene segment in which said user wants to start replaying; providing information of said starting point of said rewind scene segments for said database table; and updating said associated database table in accordance with said user preference (FIG.10, elements 1304-2; Para 242).

Regarding Claims 7 and 14, Tow discloses providing a deletion of said broadcast program capacity to said user; deleting said plurality of scene segment records which contain information of a plurality of scene segments stored on said hard disk upon reception of a user command; and regaining an available space on said hard disk storing said plurality of scene segments for future recording (Col 4 lines 52-58).

Regarding Claims 15 and 20, Aoki discloses a system (FIG.1) with corresponding method for content recording of a personal video recorder comprising:

means for receiving a broadcast program (101);

means for storing said broadcast program on a hard disk (102);

means for receiving a user preference signal via a user interface (104);

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means for generating an associated database table in accordance with said user preference signal (FIG.8, element 1107), said associated database table containing a plurality of scene segment records (FIG.10, elements 1304-1, 1304-2, 1304-3);

means for employing a record of said associated database table (FIG.10) that contains a start address field, an end address field (1304-1, each segment inherently includes start and end addresses), a user preference field (viewed, partially viewed or not viewed indicated by shaded area), and a show name field (1301, NEWS);

means for providing a stop capacity of said broadcast to said user (Para 249);

means for providing information of a starting point of a unviewed scene segments for said database table (FIG.10, segment between 1304-2 and 1304-4 has been stopped; Para 250); and

means for updating said associated database table in accordance with said user preference (FIG.10, segment between 1304-2 and 1304-4 indicates updating of being stopped),

wherein said unviewed scene segment is virtually divided on said hard disk (unviewed segment is virtually divided on said hard disk).

Regarding Claims 16 and 21, as have been analyzed and described as in Claims 2, 9.

Regarding Claims 17 and 22, as have been analyzed and described as in Claims 4, 11.

Regarding Claims 18 and 23, as have been analyzed and described as in Claims 5, 12.

Regarding Claims 19 and 24, as have been analyzed and described as in Claims 6, 13.

### ***Conclusion***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred Peng whose telephone number is (571) 270-1147. The examiner can normally be reached on Monday-Friday 09:00-18:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivek Srivastava can be reached on (571) 272-7304. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Fred Peng  
Patent Examiner



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